

CHAL-0785

10 November 1959

MEMORANDUM FOR: Record

SUBJECT : Status of Second System VII

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2. The first proposal was to procure a System VII for installation in a Chalice vehicle. This system would be quite similar to the present System VII but with added frequency coverage, to 320 megacycles, and several refinements intended to provide higher quality data. This system could be produced in 10-12 weeks after receipt of GFE by the contractor. Flight Tests would take another 4 weeks, the total time until the system would be ready for deployment to the field being of the order of 14-16 weeks. The cost of this system would be approximately as follows:

System contractor	\$170,000
Tape recorder (GFE)	25,000
R. F. Heads (GFE)	8,000
Modification of aircraft and Flight test of system	undetermined

It is pointed out that there is in stock an Ampex 814 recorder which could be used. This recorder has a bandwidth of 100 KC. If it were desirable to have a greater bandwidth capability, it would be necessary to purchase one of the new Ampex recorders for approximately \$30,000.

The second proposal for System VII is to install a modified system in a [redacted]. This system would also provide for operator manning of the system, thus allowing for maximum "tuning up" of the signal. The Navy has submitted a letter to [redacted] delineating the various costs involved in the program. These costs are as follows:

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Contractor proposal	\$170,000
R.F. Heads (GFE)	3,500
Tape Recorder (GFE)	30,000
Design & test of Antennas	50,000
Installation costs	50,000
	<u>\$303,500</u>

The Navy was informed that the overall cost appeared too high and was asked to investigate means of reducing costs. They are presently doing this.

25 YEAR RE-REVIEW

4. In case the Navy can't bring the costs down considerably, it appears that the least expensive means, by far, to provide a second System VII will be for DPD to procure and install one in a Chalice vehicle.



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